

Fri Dec 28 08:22:41 2001

us-09-830-647-1.rag

GenCore version 4.5
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OM protein - protein search, using sw model

Run on: December 27, 2001, 16:44:40 ; Search time 41.26 Seconds

(without alignments)
1210.019 Million cell updates/sec

Title: US-09-830-647-1
Perfect score: 3510
Sequence: 1 MNSGAMRIHSGHFGQIGV.....SDNLLTAFRSPSTSTFTGE 674

Scoring table:
BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 522463 seqs, 74073290 residues
Total number of hits satisfying chosen parameters: 522463

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :
1: A_Geneseq_1101.*
2: /SIDS2/gcgdata/geneseq/geneseq/AA1980.DAT.*
3: /SIDS2/gcgdata/geneseq/geneseq/AA1981.DAT.*
4: /SIDS2/gcgdata/geneseq/geneseq/AA1982.DAT.*
5: /SIDS2/gcgdata/geneseq/geneseq/AA1983.DAT.*
6: /SIDS2/gcgdata/geneseq/geneseq/AA1984.DAT.*
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8: /SIDS2/gcgdata/geneseq/geneseq/AA1986.DAT.*
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11: /SIDS2/gcgdata/geneseq/geneseq/AA1989.DAT.*
12: /SIDS2/gcgdata/geneseq/geneseq/AA1990.DAT.*
13: /SIDS2/gcgdata/geneseq/geneseq/AA1991.DAT.*
14: /SIDS2/gcgdata/geneseq/geneseq/AA1992.DAT.*
15: /SIDS2/gcgdata/geneseq/geneseq/AA1993.DAT.*
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20: /SIDS2/gcgdata/geneseq/geneseq/AA1998.DAT.*
21: /SIDS2/gcgdata/geneseq/geneseq/AA1999.DAT.*
22: /SIDS2/gcgdata/geneseq/geneseq/AA2000.DAT.*
23: /SIDS2/gcgdata/geneseq/geneseq/AA2001.DAT.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Length	ID	Description
1	3510	100.0	674 21	Human ORFX ORF246
2	3510	100.0	674 21	Human H37 amino ac
3	1661	47.3	320 22	Peptide #3629 enco
4	1661	47.3	320 22	Peptide #3574 enco
5	1283	36.6	245 22	Human protein sequ
6	1170	33.3	234 21	Human H37 amino ac
7	308	8.8	60 22	Peptide #6283 enco
8	308	8.8	60 22	Peptide #7370 enco
9	281	8.0	55 22	Peptide #6848 enco
10	259	7.4	49 22	Peptide #5372 enco
11	259	7.4	49 22	Peptide #5549 enco

12	208	5.9	170	22	AA895297
13	170	4.8	1516	21	AA818195
14	164	4.7	646	21	AA818188
15	164	4.7	1087	20	AA719935
16	164	4.7	1119	20	AA719934
17	164	4.7	1279	22	AA839101
18	164	4.7	1305	22	AA840887
19	162	4.6	783	11	AA805804
20	159.5	4.5	1392	20	AA706999
21	159	4.5	2663	22	AA839097
22	159	4.5	2688	22	AA840883
23	158.5	4.5	1427	12	AA810534
24	158	4.5	980	21	AA818294
25	157.5	4.5	1979	21	AA818171
26	156.5	4.5	3248	17	AA809795
27	155.5	4.4	2482	16	AA828226
28	155.5	4.4	2482	19	AA823996
29	152.5	4.3	1308	22	AA814791
30	152.5	4.3	1501	22	AA814725
31	150.5	4.3	2781	21	AA857453
32	150.5	4.3	2907	21	AA857452
33	147.5	4.2	2954	20	AA810632
34	146.5	4.2	1257	22	AA86926
35	146.5	4.2	1863	17	AA881509
36	145.5	4.1	1639	19	AA854145
37	144	4.1	688	21	AA857274
38	144	4.1	2391	15	AA855694
39	142.5	4.1	761	20	AA828934
40	142.5	4.1	777	22	AA813804
41	142.5	4.1	777	22	AA826203
42	142.5	4.1	777	22	AA801549
43	141.5	4.0	1863	17	AA881493
44	141.5	4.0	1863	17	AA881511
45	141	4.0	1036	21	AA831888

ALIGNMENTS

RESULT 1	
AA842482	standard; Protein: 674 AA.
ID	AA842482
XX	AA842482;
AC	
DT	08-FEB-2001 (first entry)
XX	
DE	Human ORFX ORF246 polypeptide sequence SEQ ID NO:4492.
XX	
KW	Human: open reading frame; ORFX: detection; cytosolic; hepatotropic;
KW	vulnery; antiprotic; antiparkinsonian; neurotrophic; neuroprotective;
KW	anticonvulsant; osteopathic; antitarrtic; immunosuppressant; cardiac;
KW	immunostimulant; thrombolytic; coagulant; vasotropic; antidiabetic;
KW	hypotensive; dermatological; immunosuppressive; antinflammatory;
KW	antiviral; antibacterial; antifungal; antihemetic; antithyroid;
KW	antianemic; gene therapy; cancer; proliferative disorder; hypertension;
KW	neurodegenerative disorder; osteoarthritis; graft vs host disease;
KW	cardiovascular disease; diabetes mellitus; hypothyroidism; SCIP; AIDS;
KW	cholesterol ester storage; systemic lupus erythematosus; infection;
KW	severe combined immunodeficiency; malaria; autoimmune disorder; asthma;
KW	allergy; aplastic anaemia; nocturnal haemoglobinuria; burn; wound;
KW	bone damage; cartilage damage; antinflammatory disease; coagulation;
KW	thrombosis; contraceptive.
OS	Homo sapiens.
XX	
PN	MO200058473-A2.
XX	
XX	05-OCT-2000.
XX	
PF	31-MAR-2000; 2000MO-US08621.
XX	
PR	31-MAR-1999; 99US-0127607.

YAE N
09/830, 647
SEQ ID: 1-4

Best Local Similarity 100.0%; Pred. No. 1e-257;
Matches 674; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 MNSGAMRHSQHFGOGIÖVKNENKRPGLSLKTDNPEKSKCKPLMGKVEYLDPVYTI 60
Db 1 mnsгамrhsqhfggigvknknpplskltdnpekackplmgkvfylvdpsvti 60
QY 61 SEKLOKDKDGGVEEFLSDISYLSNKKKPAQGLGRTSPSPSPSAYTAATTSPIH 120
Db 61 seklokdkggveeflsdisylsnkkkpaqlgrrtspspspaytaatspih 120
QY 121 PSHGSSSEKSPDTWCLSRGKLLVEKAIKDHDIFPSNLSLNAISGKILHMDIRRYIE 180
Db 121 pshgsssekspdtwclsrqkllvekaikdhdfipsnlslnaisgkvlhmdirryie 180
QY 181 QKKKELYLLKRSSTSVRDGKRGVSGAQTGRLKRPKPVVEDNSQLYRPPLYQLTNMP 240
Db 181 qkkkelyllkksstsvrdgkrgvsgaqtgrlkrpkpvednsqlyrplyqltnmp 240
QY 241 FINYSIOKPCSPDYDRSSMOKOTÖVKLRITOTGDKGTSIQQLKEKKKKYCECCL 300
Db 241 finysioqpcspdydrpsmokrövkrlritotgdkgtsiqqlkexkkkycecc1 300
QY 301 QKYEDELHLLSEOHNRNPAQSNQYQVVDIVSKLVDFVEYEKDTPKKKRIKYSVGLSP 360
Db 301 qkyedelhllseqhnrnfaqsnqyvvdvsklvdfveyekdtpkkrikysvgs1sp 360
QY 361 VSASVYLKTEQKEKVELQHSIQKDCQEDDTYVKEQNFLYKETQETKLLFTSEPIPHPS 420
Db 361 vsasvylkteqkevelqhsisqkdcqeddtvkegnflyketekellfisepi1p1ps 420
QY 421 NELGINKENKNCMSLSTAEDDIRONFTÖPLHKRKOCILDISHNLSEMDLELVND 480
Db 421 nelglnkcnkmslstaeddirtgltplhknkqecildisehnlsemdleelvnd 480
QY 481 HYKCNIOASVHSPSTNNGSQPKOKSDPVLFPKADLKEKDLHSIFHDSGLITINSQ 540
Db 481 hycnlioasvhspsstnngsqpkoksdvlpfakdlkekdlhsifhds9l1tinsq 540
QY 541 EHLVQAKAPFHTRPEEPNECDPFKMDSLPSGKIRKVKYIILGRNKKENLEPNAEFDKRT 600
Db 541 ehltvqakapfhtpreepnecdpfkmdslpsgkirkvkiilgrnrkenlepnaefdkrt 600
QY 601 EPTQEEKRICSSPVSLLDLFOTSEKSEFLGFMTSEKSGICNVLDIMEENDNLIT 660
Db 601 eptqeekricsspvslldlfotseksseflgfmtekskgicnvldimeensdnlit 660
QY 661 AFFSSPSTSTFTGCF 674
Db 661 affsspststftgcf 674

```

RESULT 3
AA17195
ID AA17195 standard; Protein: 320 AA.

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XX AC AAM17195;
XX DT 12-OCT-2001 (first entry)
XX DE Peptide #3629 encoded by probe for measuring cervical gene expression.
XX KW Probe: human; microarray; gene expression; cervical epithelial cell;
XX KW cervical cancer.
XX OS Homo sapiens.
XX PN M0200157278-A2.
XX PD 09-AUG-2001.
XX PF 30-JAN-2001; 2001WO-US00670.
XX

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PR 04-FEB-2000; 2000US-0180312.
PR 26-MAY-2000; 2000US-0207456.
PR 30-JUN-2000; 2000US-0608408.
PR 03-AUG-2000; 2000US-0632366.
PR 21-SEP-2000; 2000US-0234687.
PR 27-SEP-2000; 2000US-0236359.
PR 04-OCT-2000; 2000GB-0024263.
XX
PA (MOLE-) MOLECULAR DYNAMICS INC.
XX Penn SQ, Hanzel DK, Chen W, Rank DR;
XX WPI: 2001-488901/53.
XX
XX WPI: 2001-488901/53.
XX
XX Human genome-derived single exon nucleic acid probes useful for
XX analyzing gene expression in human cervical epithelial cells -
XX
XX Claim 27; SEQ ID No 22021; 487bp; English.
XX
XX The present invention relates to human single exon nucleic acid probes
XX (SENP: see A110068-A128459). The present sequence is a peptide encoded
XX by one such probe. The SENPs are derived from human HeLa cells. The SENPs
XX can be used to produce a single exon microarray, which can be used for
XX measuring human gene expression in a sample derived from human cervical
XX epithelial cells. By measuring gene expression, the probes are therefore
XX useful in grading and/or staging of diseases of the cervix, notably
XX cervical cancer.
XX
XX Note: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format directly from Wipo
XX at ftp.wipo.int/pub/published_pcl_sequences.
XX
XX Sequence 320 AA:

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Query Match 47.3%; Score 1661; DB 22; Length 320;
Best Local Similarity 100.0%; Pred. No. 7.7e-118;
Matches 320; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 351 IYVSGISPVASVYLKTEQKEKVELQHSIQKDCQEDDTYVKEQNFLYKETQETKLL 410
Db 1 iysvgsispvasvylkteqkevelqhsisqkdcqeddtvkegnflyketekell 410
QY 411 FTSEPIPHPSNELRGINKENKNCMSLSTAEDDIRONFTÖPLHKRKOCILDISHTLS 470
Db 61 f1sepi1p1psnelrglnkcnkmslstaeddirtgltplhknkqecildisehtls 120
QY 471 ENDEELRLVDHYKCNIOASVHSDFTNNGSQPKOKSDPVLFPKADLKEKDLHSIFTHD 530
Db 121 endeelrldvhykcnlioasvhsdftnngsqpkoksdvlpfakdlkekdlhsifthd 180
QY 531 SGLITINSQEHUTVQAKAPFHTRPEEPNECDPFKMDSLPSGKIRKVKYIILGRNKKENL 590
Db 181 sglitinsqehltvqakapfhtpreepnecdpfkmdslpsgkirkvkiilgrnrkenl 240
QY 591 EPNAEFDKRTFTTQEEENKICSSPVSLLDLFOTSEKSEFLGFMTSEKSGICNVLDIM 650
Db 241 epnaefdkrtf1tqeennicsspvslldlfotseksseflgfmtekskgicnvldim 300
QY 651 EEENDNLTAFFSSPSTST 670
Db 301 eeensdnltaffsspstst 320

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RESULT 4

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XX AAM04892
XX ID AAM04892 standard; Protein: 320 AA.
XX
XX AAM04892;
XX AC
XX DT 09-OCT-2001 (first entry)
XX DE Peptide #3574 encoded by probe for measuring breast gene expression.
XX

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OY 430 MSNKMSTLSTADDDIRONTOLPLHKNKCECLIDISEHTLSENDLEELRVDRYKCNIOAS 489
 Db 1 mnskmsmsteeddrrqftqlplnkxqecldlsehtlseendleelrvdrlykcnioas 60
 OY 490 VHVSDFTSDNGSGOPKROKSDTVLFPAPKDLKENDLSIFTHSDGLITITINSQSEHLTVQAKA 549
 Db 61 vhwadfstcdngsqgkqkxqadcvlrfpdkdlkekdlnhstfthdsqglitinsqsehlrvqaka 120
 OY 550 PEHTPEEPNECDPFKNMNSLPSGKHKRKVKITLGNKNKENLEPNAEFPDKRTFTIOENR 609
 Db 121 pthpeepnecdpfknomslpsgkhhrrvklllgnrkenlepnaeftdkrtfllqeenr 180
 OY 610 ICSSVQGLDLDFCTSEKSESEFIFTSTYKSGICGNVLDIWEENSNDMLTAFSSPSTS 669
 Db 181 icsvqvglldlftseekssefiftstyksqicgnvldiweensndmltaffsspts 240
 OY 670 TPTGTF 674
 Db 241 tftgtf 245

RESULT 6

AAB03759
 ID AAB03759 standard; Protein: 234 AA.

AC AAB03759;

DT 04-OCT-2000 (first entry)

DE Human H37 amino acid sequence #2.

KW H37: human: Cdc7 regulatory subunit; cytosolic; proliferative; cancer;
 KN anti-proliferative; replication regulator; stem cell.

OS Homo sapiens.

PN WO200026250-A1.

PD 11-MAY-2000.

PF 01-NOV-1999; 99WO-JP06076.

PR 30-OCT-1998; 98JP-0311408.

XX (NISC-) JAPAN SCT & TECHNOLOGY CORP.

PA (ARAI/) ARAI K.

PA (MASA/) MASA H.

PI Arai K, Masai H;

DR WPI: 2000-365580/31.

DR N-PSDB; AAA53484.

PT Human H37 proteins with a Cdc7 activity regulatory subunit, for
 PT controlling cell replication and cell proliferation, useful in treating
 PT cancers and diseases due to abnormal production of stem cells -

XX Claim 2; Page 46-47; 55pp; Japanese.

CC The present sequence represents a human H37 protein sequence. H37 is a
 CC protein with a Cdc7 activity regulatory subunit. The invention relates to
 CC two H37 protein and nucleotide sequences. H37 proteins exhibit
 CC cytosolic, proliferative, anti-proliferative, and cell replication
 CC regulatory activities. The proteins, encoded genes and DNA fragments are
 CC useful in treating cancers and other diseases resulting from abnormal
 CC production of stem cells. Antibodies directed against one of the H37
 CC proteins can be used to inhibit cell proliferation.

XX Sequence 234 AA;

Query Match 33.3%; Score 1170; DB 21; Length 234;
 Best Local Similarity 100.0%; Pred. No. 7.6e-81;

Matches 227; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 OY 1 MNSGAMRHSKGFHFGGIQVKNKKNRPSLSLKTDRNRPKSKCKPLMGVFFLDPSVTI 60
 Db 1 mnsгамrhskgfhfggqivknkknrpslskslktdrnpksckckplmgvffldpsvli 60
 OY 61 SEKLKDIRDLGRVVEEFISKDISYLSNKKKAKFAQTGRISPVSPSAVTAERTSPH 120
 Db 61 sekldkirdlgrvveefiskdisylsnkkkakaqfagrispvspasavtaertsp 120
 OY 121 PSHDSSFSKSPDYCLSRGKLVEKAIKDHDFIPNSILSNALSMGVKILHIDIRYIE 180
 Db 121 pshdssfskspdyclsrqklvkeaikdhdffipnsilsnalsmgvkihlhiddiryie 180
 OY 181 QKKKEIYLKKSSTSVROGKRVGSAOKTRTGRLKKRPVKVEDMSQ 227
 Db 181 qkkkeilylkksstsvrdgkkrvgsaoktrtgrlkkpvrkvedmsq 227

RESULT 7

AAM19849
 ID AAM19849 standard; Protein: 60 AA.

AC AAM19849;

DT 12-OCT-2001 (first entry)

DE Peptide #6283 encoded by probe for measuring cervical gene expression.

KN Probe; human; microarray; gene expression; cervical epithelial cell;

KW cervical cancer.

OS Homo sapiens.

PN WO200157278-A2.

PD 09-AUG-2001.

PF 30-JAN-2001; 2001WO-US00670.

PR 04-FEB-2000; 2000US-0180312.

PR 26-MAY-2000; 2000US-0207456.

PR 30-JUN-2000; 2000US-0608408.

PR 03-AUG-2000; 2000US-0632366.

PR 21-SEP-2000; 2000US-0234687.

PR 27-SEP-2000; 2000US-0236359.

PR 04-OCT-2000; 2000GB-0024263.

XX (MOLE-) MOLECULAR DYNAMICS INC.

XX Penn SG, Hanzel DK, Chen W, Rank DR;

XX WPI: 2001-488901/53.

XX Claim 27; SEQ ID No 24675; 487pp; English.

CC The present invention relates to human single exon nucleic acid probes
 CC (SENP: see AAI10068-AA128459). The present sequence is a peptide encoded
 CC by one such probe. The SENPs are derived from human HeLa cells. The SENPs
 CC can be used to produce a single exon microarray, which can be used for
 CC measuring human gene expression in a sample derived from human cervical
 CC epithelial cells. By measuring gene expression, the probes are therefore
 CC useful in grading and/or staging of diseases of the cervix, notably
 CC cervical cancer.
 CC Note: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pct_sequences.

XX Sequence 60 AA;

Query Match 8.8%; Score 308; DB 22; Length 60;
 Best Local Similarity 100.0%; Pred. No. 2,1e-16;
 Matches 60; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 74 RVEEFLSKDISYLSINKEKFAQTLGRISVPSPESAYTAETTSHPHSDGSSFKSPDT 133
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Db 1 rveeflskdisylsinkkeakfaqlgrispvpsesaytaettsphsdgssfkspdt 60

RESULT 8
 AAM33333
 ID AAM33333 standard; Protein; 60 AA.
 XX
 AC AAM33333;

DT 17-OCT-2001 (first entry)

DE Peptide #7370 encoded by probe for measuring placental gene expression.

XX Probe; microarray; human; placenta; antenatal diagnosis;
 KW genetic disorder.

OS Homo sapiens.

XX WO200157272-A2.

XX 09-AUG-2001.

XX 30-JAN-2001; 2001WO-US00663.

XX 04-FEB-2000; 2000US-0180312.

XX 26-MAY-2000; 2000US-0207456.

XX 30-JUN-2000; 2000US-0608408.

XX 03-AUG-2000; 2000US-0632366.

XX 21-SEP-2000; 2000US-0234687.

XX 27-SEP-2000; 2000US-0236359.

XX 04-OCT-2000; 2000GB-0024263.

XX (MOLE-) MOLECULAR DYNAMICS INC.

XX Penn SG, Hanzel DK, Chen W, Rank DR;

XX WPI; 2001-488897/53.

XX Human genome-derived single exon nucleic acid probes useful for

XX analyzing gene expression in human placenta -

XX Claim 27; SEQ ID No 33602; 654bp; English.

XX The present invention relates to single exon nucleic acid probes (SENPs;
 CC see AAI31315-AA157546). The present sequence is a peptide encoded by one
 CC such probe. The probes are useful for producing a microarray for
 CC predicting, measuring and displaying gene expression in samples derived
 CC from human placenta. The probes are useful for antenatal diagnosis of
 CC human genetic disorders.

XX Sequence 60 AA;

Query Match 8.8%; Score 308; DB 22; Length 60;
 Best Local Similarity 100.0%; Pred. No. 2,1e-16;
 Matches 60; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 74 RVEEFLSKDISYLSINKEKFAQTLGRISVPSPESAYTAETTSHPHSDGSSFKSPDT 133
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Db 1 rveeflskdisylsinkkeakfaqlgrispvpsesaytaettsphsdgssfkspdt 60

RESULT 9
 AAM32811
 ID AAM32811 standard; Protein; 55 AA.
 XX

AC AAM32811;

XX 17-OCT-2001 (first entry)

DT Peptide #6848 encoded by probe for measuring placental gene expression.

XX Probe; microarray; human; placenta; antenatal diagnosis;
 KW genetic disorder.

OS Homo sapiens.

XX WO200157272-A2.

XX 09-AUG-2001.

XX 30-JAN-2001; 2001WO-US00663.

XX 04-FEB-2000; 2000US-0180312.

XX 26-MAY-2000; 2000US-0207456.

XX 30-JUN-2000; 2000US-0608408.

XX 03-AUG-2000; 2000US-0632366.

XX 21-SEP-2000; 2000US-0234687.

XX 27-SEP-2000; 2000US-0236359.

XX 04-OCT-2000; 2000GB-0024263.

XX (MOLE-) MOLECULAR DYNAMICS INC.

XX Penn SG, Hanzel DK, Chen W, Rank DR;

XX WPI; 2001-488897/53.

XX Human genome-derived single exon nucleic acid probes useful for

XX analyzing gene expression in human placenta -

XX Claim 27; SEQ ID No 33080; 654bp; English.

XX The present invention relates to single exon nucleic acid probes (SENPs;
 CC see AAI31315-AA157546). The present sequence is a peptide encoded by one
 CC such probe. The probes are useful for producing a microarray for
 CC predicting, measuring and displaying gene expression in samples derived
 CC from human placenta. The probes are useful for antenatal diagnosis of
 CC human genetic disorders.

XX Sequence 55 AA;

Query Match 8.0%; Score 281; DB 22; Length 55;
 Best Local Similarity 100.0%; Pred. No. 2,1e-14;
 Matches 55; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 74 RVEEFLSKDISYLSINKEKFAQTLGRISVPSPESAYTAETTSHPHSDGSSFKSPDT 128
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Db 1 rveeflskdisylsinkkeakfaqlgrispvpsesaytaettsphsdgssfkspdt 55

RESULT 10
 AAM18938
 ID AAM18938 standard; Protein; 49 AA.
 XX
 AC AAM18938;

DT 12-OCT-2001 (first entry)

DE Peptide #5372 encoded by probe for measuring cervical gene expression.

XX Probe; human; microarray; gene expression; cervical epithelial cell;
 KW cervical cancer.

OS Homo sapiens.

XX WO200157278-A2.

XX 09-AUG-2001.

PF	XX	30-JAN-2001; 2001WO-US00670.
PR	XX	04-FEB-2000; 2000US-0180312.
PR	XX	26-MAY-2000; 2000US-0207456.
PR	XX	30-JUN-2000; 2000US-0608408.
PR	XX	03-AUG-2000; 2000US-0632366.
PR	XX	21-SEP-2000; 2000US-0234687.
PR	XX	27-SEP-2000; 2000US-0236359.
PR	XX	04-OCT-2000; 2000GB-0024263.
PA	XX	(MOLF-) MOLECULAR DYNAMICS INC.
PI	XX	Penn SG, Hanzel DK, Chen W, Rank DR;
DR	XX	WPI; 2001-488901/53.
XX	XX	
PT	XX	Human genome-derived single exon nucleic acid probes useful for
PT	XX	analyzing gene expression in human cervical epithelial cells -
XX	XX	
PS	XX	Claim 27; SEQ ID No 23764; 487bp; English.
CC	XX	The present invention relates to human single exon nucleic acid probes
CC	XX	(SNP: see A110068-A128459). The present sequence is a peptide encoded
CC	XX	by one such probe. The SNPs are derived from human HeLa cells. The SNPs
CC	XX	can be used to produce a single exon microarray, which can be used for
CC	XX	measuring human gene expression in a sample derived from human cervical
CC	XX	epithelial cells. By measuring gene expression, the probes are therefore
CC	XX	useful in grading and/or staging of diseases of the cervix, notably
CC	XX	cervical cancer.
CC	XX	Note: The sequence data for this patent did not form part of the printed
CC	XX	specification, but was obtained in electronic format directly from WIPO
CC	XX	at ftp.wipo.int/pub/published_pct_sequences.
XX	XX	
SO	XX	Sequence 49 AA:
XX	XX	
Query Match	7.4%;	Score 259; DB 22; Length 49;
Best Local Similarity	100.0%;	Pred. No. 8.2e-13;
Matches 49;	Conservative 0;	Mismatches 0; Indels 0; Gaps 0;
OY	25	NRPSTKSTKTDNRPEKSKCKPLMGVFFYLDLPSTYISEKLDKIDDLGG 73
DB	1	nrrpslkslktndnrpekskckplmgvffylldlpstviselkldgldldlg 49
RESULT 11		
AAAM31512		
ID	AAAM31512	standard; Protein; 49 AA.
XX	XX	
AC	AAAM31512;	
XX	XX	
DT	17-OCT-2001	(first entry)
XX	XX	
DE	Peptide #5549	encoded by probe for measuring placental gene expression.
XX	XX	
KW	Probe; microarray; human; placenta; antenatal	diagnosis;
XX	XX	genetic disorder.
OS	Homo sapiens.	
XX	XX	
PN	WO200157272-A2.	
XX	XX	
PD	09-AUG-2001.	
XX	XX	
PF	30-JAN-2001; 2001WO-US00663.	
XX	XX	
PR	04-FEB-2000; 2000US-0180312.	
PR	26-MAY-2000; 2000US-0207456.	
PR	30-JUN-2000; 2000US-0608408.	
PR	03-AUG-2000; 2000US-0632366.	
PR	21-SEP-2000; 2000US-0234687.	
PR	27-SEP-2000; 2000US-0236359.	

```

PR      04-OCT-2000; 2000GB-0024263.
XX
XX      (MOLFE-) MOLECULAR DYNAMICS INC.
PA
XX      Penn Sq, Hanzel DK, Chen W, Rank DR;
PI
XX      WPT: 2001-488897/53.
DR
XX      Human genome-derived single exon nucleic acid probes useful for
PT      analyzing gene expression in human placenta -
XX
XX      Claim 27; SEQ ID NO 31781; 654pp; English.
XX
XX      The present invention relates to single exon nucleic acid probes (SENPs;
CC      see AA13115-AA157546). The present sequence is a peptide encoded by one
CC      such probe. The probes are useful for producing a microarray for
CC      predicting, measuring and displaying gene expression in samples derived
CC      from human placenta. The probes are useful for antenatal diagnosis of
XX      human genetic disorders.
XX
SQ      Sequence    49 AA;

Query Match          7.4%; Score 259; DB 22; Length 49;
Best Local Similarity 100.0%; Pred. No. 8.2e-13;
Matches   49; Conservative    0; Mismatches    0; Indels    0; Gaps    0;

QY      25 NRPSSKSLKTDRNRPESKKCKPLMGKVFFYLDPSPVITSEKLQDKIDGLG 73
Db       1 nrpsskslktndrnpeskkckplmgkvffylldpsvclseklqdkidglg 49
|||||
|||||

RESULT 12
AAB95297
ID      AAB95297 standard; Protein; 170 AA.
XX
XX      AAB95297;
AC
XX
DT      26-JUN-2001 (first entry)
XX
DE      Human protein sequence SEQ ID NO:17525.
XX
XX      Homo sapiens.
KM
XX      Human; primer; detection; diagnosis; antisense therapy; gene therapy.
OS
XX      Homo sapiens.
PN      EP1074617-A2.
PD
XX      07-FEB-2001.
PE
XX      28-JUL-2000; 2000EP-0116126.
PF
XX      29-JUL-1999; 99JP-0248036.
PR      27-AUG-1999; 99JP-0300253.
PR      11-JAN-2000; 2000JP-0118776.
PR      02-MAY-2000; 2000JP-0183767.
PR      09-JUN-2000; 2000JP-0241899.
PA
XX      (HELI-) HELIX RES INST.
XX
XX      Ota T, Isogai T, Nishikawa T, Hayashi K, Saito K, Yamamoto J;
PI      Ishii S, Sugiyama T, Wakamatsu A, Nagai K, Otsuki T;
XX
XX      WPT: 2001-318749/34.
DR
XX
XX      Primer sets for synthesizing polynucleotides, particularly the 5602
PT      full-length cDNAs defined in the specification, and for the detection
PT      and/or diagnosis of the abnormality of the proteins encoded by the
XX      full-length cDNAs -
PS      Claim 8; SEQ ID 17525; 2537pp + CD ROM; English.
XX
XX      The present invention describes primer sets for synthesising 5602

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PN WO9859071-A1.
 XX 30-DEC-1998.
 XX 18-JUN-1998; 98MO-US12718.
 XX 03-SEP-1997; 97US-0057483.
 XX 20-JUN-1997; 97US-0050359.
 XX 22-JUL-1997; 97US-0053344.
 XX 22-JUL-1997; 97US-0053377.
 XX (HUMA-) HUMAN GENOME SCI INC.
 PA (MED-) MEDIMUNE INC.
 PI Chol GH, Erwin AL, Hanson MS, Lathigra R;
 DR WPI: 1999-189980/16.
 DR N-PSDB: AX61632.
 XX New isolated Borrelia burgdorferi nucleic acids - used to develop
 PT products for the diagnosis, prevention and treatment of diseases
 PT caused by Borrelia, particularly Lyme disease
 PS Claim 12; Page 125; 275pp; English.
 CC This sequence represents a Borrelia burgdorferi (Bb) protein of the
 CC invention, which is suitable for use in a vaccine. The Bb polypeptides
 CC can be used in vaccines for eliciting protective antibodies to members of
 CC the Borrelia genus, particularly for the use against Lyme disease in
 CC humans and animals. They can be used for preventing or attenuating an
 CC infection caused by a member of the Borrelia genus. The products can also
 CC be used for detection of members of the Borrelia genus.
 XX
 XX Sequence 1087 AA:

Query Match 4.7%; Score 164; DB 20; Length 1087;
 Best Local Similarity 19.2%; Pred. No. 0.001;
 Matches 157; Conservative 126; Mismatches 265; Indels 270; Gaps 42;

OY 22 NEKRPSLSLKTDRNPERSKCP--LMGKVF--YLDLPSVTISEKLDKIDG---72
 DB 217 nnnntslkllksnqkeselspsqllgklyrpy---syllkelyelldintgrv 272
 OY 73 ---GRVEFLSKDIS-----YLISNKKKAKFAQTL---GRISP--VSPESAY-- 112
 DB 273 tlgknrlkellkylglsnkgfqnvelnsknksaenlllllkldiepnllnlpkapyk 332
 OY 113 ---TAETTSPPHSHD-GSSFKSPDTVCLSRGKLVERKAIRD-HDFT--PSNSILSMA 162
 DB 333 elfgldekdkkpyledlkskvhslkpidlentkr--qgalkdneflknpnndaqask 391
 OY 163 LSMGVKTLIHIDIRYIEQ--KKKELYLKSSSTVSVDG---KRVGSGAQKTRTGRLKP 218
 DB 392 laganklqhlledlkskvhslkpidlentkrqgalkdneflknpnndaqaskclagank 451
 OY 219 FKVVEDMSQLYRPFYQLTNMFINYSTOKPCSPDYDKPSMQOTQYKLRITQDGDY 278
 DB 452 lqhlledlkskv-----hslik-----pidlentkrq----- 477
 OY 279 GGTSIQQLKEKKKKKGYCCLOKTEDLLEHL-----SEQHNRFAQSNQYVVDIYVK 333
 DB 478 -----gaalkdneflknpnndaqaskclaganklqhlledlksk 515
 OY 334 L-----VFDEVEKDTPKKKR-----IKSYGSLSP 360
 DB 516 vhsikpidlentksrqgalkdneflknpnndaqaskclaganklqhlledlkskvhslk 575
 OY 361 VSASVLRKTEQ--KEKVELQHTSQKDCQEDDTYKEQNFILYKFTQETEKILFTSEPIPH 418
 DB 576 ldlentksrqgalkdneflknpnndaqaskclaganklqhle--dlkskvhsl--kpdl 632
 OY 419 PSNE-----LRGLNEKMSKNCMLSTAEDDIRQNFQ-----LPIHKNK 457

DB 633 entksrqgalkdneflknpnndaqaskclaganklqhlledlkskvhslkpidlentkar 692
 OY 458 QECILDISE-----HTL-----SENDEEL-----RVDHYKONT- 486
 DB 693 qgalkdneflknpnndaqaskclagayennqllkaenayekllklnlqedyklyl 752
 OY 487 -----QASVHVSDESPYDNGSQPKOKSDTVLFPAKDKLXKEDLHSTFTHDG--LITTN 537
 DB 753 rfxlkkyehslsfid-----qtklqpkhkalhnmkgialmmhln 791
 OY 538 SSOEHL-----TVQAKAPHP-----PEEPNE-----CDFK--NMDSLPBGKIHKK 577
 DB 792 knkkalesfekalqldknyglayqkglaeekngdqgafasfknaaynlknpnyal--k 849
 OY 578 VKTI--LGRNRENLEP---NAEFDKRTF-----ITORENRKICSSPYOSLDDLFQT 624
 DB 850 aglvsnmly-nfkqseeylnfnanakkpneiatynslaktemnklesietlnkeidl 908
 OY 625 SEEKSEFLGFTS--YTEKSGICNVLDIWE--BENS DN 657
 DB 909 npekeeylylksalnkkenyqnalstyslyvleknpen 946

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 Job time: 519 sec

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